Specifications

■ Specifications VG-88

A/D Conversion 24 bit AF Method (NORMAL INPUT), 20 bit (GK INPUT) **D/A Conversion** 20 bit 128 times Oversampling ΔΣ Modulation **Sampling Frequency** 44.1 kHz **Program Memories** 260 (Preset: 160 + User: 100) **Nominal Input Level** INPUT: -10 dBm **Input Impedance** INPUT: 1 MΩ **Nominal Output Level** OUTPUT: +4 dBm, GUITAR OUT: -10 dBm **Output Impedance** OUTPUT: 2 kΩ, GUITAR OUT: 2 kΩ **Dynamic Range** 100 dB or greater (IHF-A) **Display** 160 x 64 dots backlit LCD, 8-segment 2-character LED **Connectors** GK IN, GUITAR INPUT, GUITAR OUTPUT, OUTPUT L (MONO), OUTPUT R, PHONES, SUB EXP PEDAL/SUB CTL1/2, MIDI IN, MIDI OUT **Power Supply** AC 117 V/230 V/240 V **Power Consumption** 24 W **Dimensions** 504 (W) x 303 (D) x 101 (H) mm, 19-7/8 (W) x 11-15/16 (D) x 4 (H) inches **Weight** 4.9 kg/10 lbs 13 oz **Accessories** Owner's Manual, Quick Start, GK Connecting Cable: C-13A (5 m)

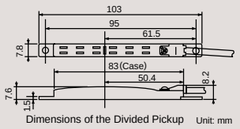
(0 dBm=0.775 Vrms)

■ Specifications GR-33

Sound Generator 1 Part (Mono mode M=6/Poly mode switchable) **Maximum Polyphony** 48 voices **Tones** 384 **Patches** User: 128, Preset: 128 **Display** 16 segments 6 characters backlit LCD, 7 segments 3 characters LED **Effects** MULTI-FX (40 types), Chorus, Reverb **Connectors/Jacks** GK IN, BANK SHIFT, GUITAR OUT, GUITAR RETURN L, GUITAR RETURN R (MONO), MIX OUT L (PHONES), MIX OUT R (MONO), MIDI IN, MIDI OUT, AC IN **Power Supply** AC 14V (AC Adaptor) **Current Draw** 800 mA **Dimensions** 435 (W) x 280 (D) x 95 (H) mm, 17-1/8 (W) x 11 (D) x 3-3/4 (H) inches **Weight** 2.5 kg/5 lbs 9 oz (excluding the AC Adaptor) **Accessories** Owner's Manual, AC Adaptor BRC series, GK Connecting Cable: C-13A (5 m)

Options

GK-2A
Divided Pickup
Small and compact, the GK-2A pickup is a synth driver that can be mouned on any guitar quickly and easily, operating in close proximity to the strings for maximum sensitivity and tracking accuracy.



Dimensions of the Divided Pickup Unit: mm

US-20 Unit Selector
Allows a single guitar to control two GK-compatible units such as the VG-88 and the GR-33.

EV-5
Expression Pedal

FV-300L
Foot Volume/Expression

FS-5U
Foot Switch (Unlatch Type)

DP-2
Pedal Switch

C-13B
GK Connecting Cable
(10m)

PCS-31
Cable
(Stereo 1/4" - 2 x 1/4"; 2.2m)

GI-10
Guitar MIDI Interface
The GI-10 is a half-rack sized guitar-to-MIDI converter that, when used in conjunction with the GK-2A (or compatible) pickup, lets you trigger MIDI sound sources or input guitar note data into a music sequencer.

Roland®

Visit us online at http://www.roland.co.jp/

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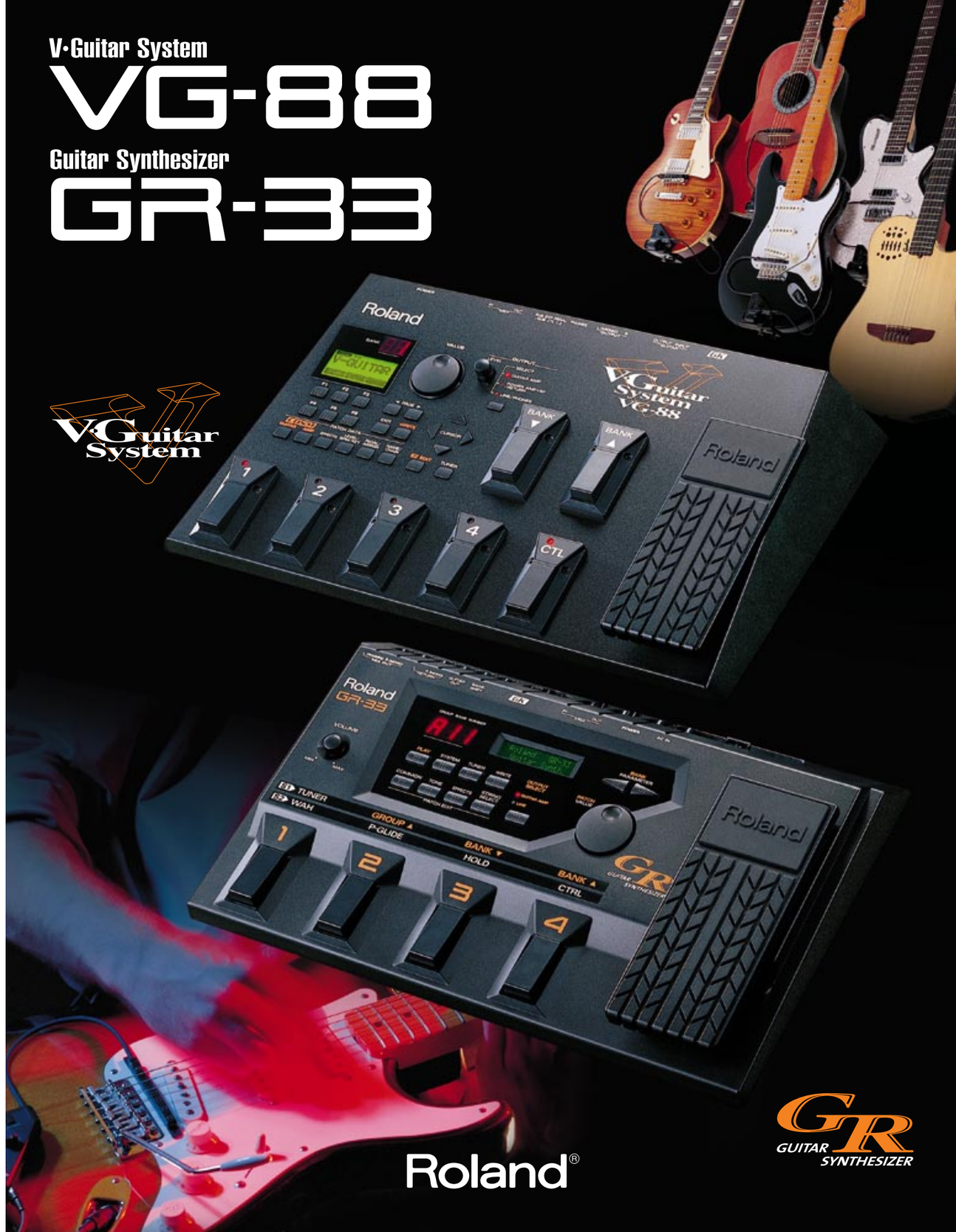
Printed in Japan May 2000 RAM-3228 ERK-GEN-SE BE-3

V-Guitar System

VG-88

Guitar Synthesizer

GR-33



V-Guitar System

GR GUITAR SYNTHESIZER

Roland®

V-Guitar System VG-88

The VG-88 V-Guitar System is a self-contained guitar modeling and processing system which uses advanced Composite Object Sound Modeling (COSM) to model the sound of a variety of popular guitars and amplifiers. These models include hollow-body and acoustic guitars, plus an amazing new nylon-string guitar. There's also more natural tube and overdriven amp sounds, new brass and synth sounds, brand-new effects, an onboard expression pedal and direct guitar input—letting you tap into amazing COSM amp models and effects with any standard electric guitar pickup.

COSM

GK

Join the Guitar Revolution

The Roland VG-88 V-Guitar System and GR-33 Guitar Synthesizer are the key to igniting your personal guitar revolution. Are you ready?

Mount the Roland GK-2A Divided Pickup on any steel-string guitar…

Then tap into Roland guitar products to capture a full range of expressive possibilities…

With extreme durability and dramatic ease-of-use…

GK

With the GR-33, Roland gives guitar players more of what they want in a floor-based guitar synthesizer: better sounds and faster tracking. To this end, the GR-33's sound engine and effects are now equivalent to Roland's industry-standard JV-Series synthesizers, giving this GK-Ready synth 384 sounds of unparalleled quality that track as fast as you play. With dedicated Chorus, Reverb and 40 multi-effects—plus an onboard arpeggiator, Synth Harmonist, and assignable expression pedal—the GR-33 stands at the cutting-edge of guitar synthesis.

GR GUITAR SYNTHESIZER GR-33

Take Your Guitar Further.

The Roland VG-88 presents guitarists with the next-generation of revolutionary V-Guitar technology. Built in the tradition of the highly acclaimed VG-8, this futuristic guitar system uses advanced COSM technology to "model" the most popular guitars and amplifiers in music history, as well as produce some very unique "guitar-meets-synth" sounds all its own.

Upgraded COSM Guitar & Amp Selections

Since its introduction several years ago, Roland V-Guitar technology has slowly become the "best-kept secret" of many of today's top performers and studio musicians. Today, the list of V-Guitar System users reads like a "who's who" of modern guitar... and with good reason. Thanks to Roland's Composite Object Sound Modeling (COSM) technology, the original VG-8 and new VG-88 guitar processing/modeling systems can combine multiple "sound objects"—different guitar bodies, pickups, vintage and modern amplifiers, speaker cabinets, microphone placements, effects algorithms and more—to create a perfect reproduction of these components that can be played from any steel-stringed guitar equipped with a Roland GK-2A or compatible pickup (sold separately).

While the original VG-8 was certainly impressive, the VG-88 goes even further by offering guitar players a whole new set of acoustic and electric guitars, amplifiers, and synth sounds to choose from. These sounds can be switched instantly, so you can go from a screamin' electric through a cranked tube amp to a subtle acoustic in a lush, ambient room. This outstanding new arsenal of sounds is highlighted by an incredibly realistic new nylon-string that has to be heard to be believed, as well as a new brass sound in COSM guitar mode, which creates synth-type sounds while preserving a guitar's natural expression.

In total, the VG-88's extensive instrument list goes from synth sounds to banjos, acoustic and electric 12-strings, hollow-bodies, and single- and double-cutaway electrics; its impressive array of amp models include a range of classic and modern American and British tube and solid state amps, giving you even more variation and color between warm, overdriven amp tones.

Powerful New Multi-Effects

The VG-88's effects section has been expanded to include a host of new multi-effects algorithms. Everything from reverb, chorus, hexa-pan, delay, flanger and parametric EQ can be used simultaneously. There are even new polyphonic effects like a string-assignable Octaver and a polyphonic Slow Gear.

A GK-Ready System

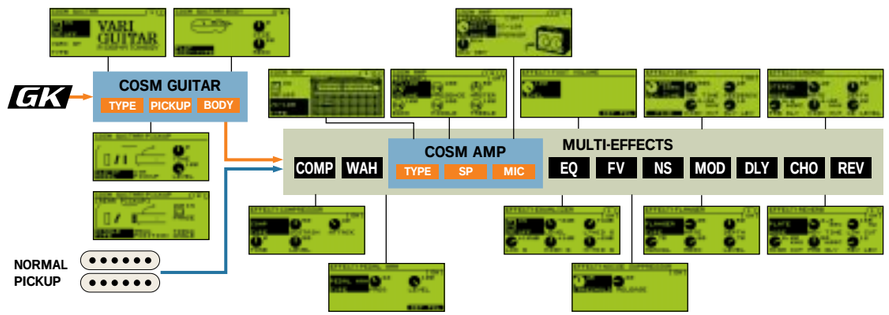
One of the keys to the VG-88's magic is the GK-2A Divided Pickup, which can be user-mounted onto any standard steel-string guitar without permanent alteration or damaging the guitar's finish. The GK-2A is much like a normal guitar pickup, sensing vibrations in the magnetic field, yet it is different in one crucial way: it delivers a separate output for every string. This allows the VG-88 to perform sophisticated pitch-shifting per string—giving you instant Open, Drop-D, and user-defined tunings—plus some absolutely incredible 2-voice pitch-shifted effects.

Blend Between Sounds

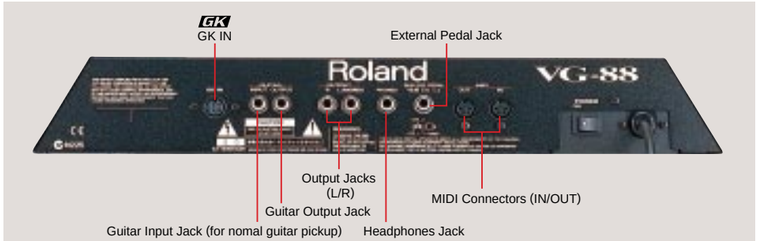
The GK-2A features an onboard control which can be used to blend its output with that of your normal guitar pickups, so you can get a great mix of "straight" and processed sounds. Add a little bass synth to your heavy guitar sound, or layer a banjo or lap steel-type sound over your clean guitar sound. The possibilities are only limited by your imagination.

Divided Pickup
GK-2A

■ *VG-88 Algorithms*



■ *Rear Panel*



Roland-Compatible Guitars

Once you're a confirmed VG-88 addict, you may want to consider the purchase of wide range of "Roland-Compatible" guitars from Fender, Ovation, Godin, Brian Moore and more. These guitars make it easy to plug in and start playing your VG-88 or GR-33 with no additional hardware.

Keepin' it Simple

Despite its sophisticated modeling-based engine, the VG-88 was designed to be incredibly simple to use. All guitar and amp models are represented with helpful icons, and you can actually see the guitar body sizes, pickup locations, mic positions, and more change as you edit them on the helpful LCD screen. EZ Edit mode puts the most commonly edited parameters right at your fingertips, while the assignable onboard expression pedal lets you make a variety of sonic tweaks and blends in real time.

■ *Effects List*

COMPRESSOR/LIMITER		
WAH		
EQUALIZER		
MOD	• HARMONIST • P.SHIFTER • FLANGER • PHASER • SUB EQUALIZER	• 2x2CHORUS • TREMOLO • PAN • PEDAL SHIFT • VIBRATO
DELAY		
CHORUS		
REVERB		
NOISE SUPPRESSOR		
FOOT VOLUME		

■ *Modeling Variations (COSM Guitar)*

TYPE	• VARI GT • ACOUSTIC • NYLON STRINGS • OPEN TUNE • 12STRINGS • PD SHIFT • POLY DIST	• POLY COMP • POLY OCT • POLY SG • BOWED • DUAL • FILTER BASS	• PIPE • SOLO • PWM • CRYSTAL • ORGAN • BRASS	
PICKUP	MODEL	• LP • CLA-ST • MOD-ST • TEL	• P-90 • LIPS • P.A.F. • RICK	• CHET • S-S-H • VARI
	PICKUP	3 PICKUP	• REAR • C+H • CENTER	• C+F • FRONT
		2 PICKUP	• REAR • F+H	• FRONT
	TYPE	MODEL=VARI	• SINGLE • DOUBLE	• PIEZO • ACOUSTIC
		COSM GUITAR TYPE=ACOUSTIC	• PIEZO • MIC	
	PHASE	• IN • OUT		
	POSITION	5–320mm		
	ANGLE	–315–+315mm		
BODY	• ATTACK • BODY • LOW CUT	• LEVEL • SIZE	• RESO • BOTTOM	
	BODY TYPE	• FLAT • ROUND • f HOLE	• METAL • BANJO	
POLYPHONIC EFFECT	• POLYPHONIC DISTORTION • POLYPHONIC COMPRESSOR/LIMITER • POLYPHONIC OCTAVE • POLYPHONIC SLOW GEAR			

■ *Modeling Variations (COSM Amp)*

TYPE	• JC-120 • CLEAN TWIN • CRUNCH • MATCH DRIVE • VO DRIVE	• BLUES • BG LEAD • MS1959 (I) • MS1959 (II) • MS1959 (I+II)	• SLDN LEAD • METAL 5150 • METAL DRIVE • AC.GUITAR
SPEAKER	• SMALL • MIDDLE • JC-120 • TWIN ON • TWIN OFF	• MATCH ON • MATCH OFF • VO ON • VO OFF • BG STACK ON	• BG STACK OFF • MS STACK ON • MS STACK OFF • METAL STACK • ACOUSTIC
MIC SET	• CENTER 1–10cm		

V-Guitar System VG-88

COSM
Composite Object Sound Modeling

Once a musical instrument generates sound vibrations, it reaches the human ear through various mediating objects, each of which significantly affects the sound. The material and configuration of the instrument, the electric/electronic/magnetic amplifying system, the air and the reverberation of the room all affect the final sound. Sound modeling, the latest DSP technology, "virtually" reconstructs these objects. Roland's breakthrough Composite Object Sound Modeling (COSM) uses the advantages of multiple modeling methods and succeeds in accurately emulating existing sounds, as well as producing sounds that have never before been created.

The Ultimate Guitar Synth from Roland.

The GR-33 Guitar Synthesizer greatly expands the range and quality of sounds currently available to guitar players, thanks to its upgraded sound engine, new effects, amazing speed and enhanced user interface. Best of all, however, is the GR-33's very accessible format and price, which puts Roland's GR technology easily within reach of all serious guitarists.

Tap into a Sonic Powerhouse

While similar in some respects to its predecessor, the GR-30, the new GR-33 Guitar Synth makes a quantum leap forward in GR technology thanks to its advanced sound engine, based on Roland's legendary JV-Series synthesizers. This rich engine opens up a whole new world of sounds for guitarists—comprised of Patches that can be layered with up to two tones each. Everything from incredibly realistic strings, fat analog basses, vintage synths, nylon-string guitars or even sound effects can be used to transform any steel-string guitar into an entirely new instrument for live performance, recording, or MIDI sequencing.*

**With optional user-installable GK-2A Divided Pickup.*

Tons of Great Effects with Realtime Control

In addition to its dedicated JV-Series-quality Reverb and Chorus processing, the GR-33 offers an onboard Multi-FX processor with 40 insert effects including overdrive, distortion, rotary and much more. An onboard expression pedal makes it easy to bring in selected effects and sounds in real time. And better still, these effects can be completely customized and saved into any of 128 User Patch locations for tonal tailoring galore.

■ ***Effects List***

1 STEREO-EQ	11 HEXA-CHORUS	21 TIME-CONTROL-DELAY	31 DISTORTION→DELAY
2 OVERDRIVE	12 TREMOLO-CHORUS	22 2VOICE-PITCH-SHIFTER	32 ENHANCER→CHORUS
3 DISTORTION	13 SPACE-D	23 FBK-PITCH-SHIFTER	33 ENHANCER→FLANGER
4 PHASER	14 STEREO-CHORUS	24 REVERB	34 ENHANCER→DELAY
5 SPECTRUM	15 STEREO-FLANGER	25 GATE-REVERB	35 CHORUS→DELAY
6 ENHANCER	16 STEP-FLANGER	26 OVERDRIVE→CHORUS	36 FLANGER→DELAY
7 AUTO-WAH	17 STEREO-DELAY	27 OVERDRIVE→FLANGER	37 CHORUS→FLANGER
8 ROTARY	18 MODULATION-DELAY	28 OVERDRIVE→DELAY	38 CHORUS/DELAY
9 COMPRESSOR	19 TRIPLE-TAP-DELAY	29 DISTORTION→CHORUS	39 FLANGER/DELAY
10 LIMITER	20 QUADRUPLE-TAP-DELAY	30 DISTORTION→FLANGER	40 CHORUS/FLANGER

The GK-2A and the World's Fastest 48-Voice Guitar Synth

It's widely accepted that the Roland GK-2A is the worldwide standard guitar pickup for MIDI applications—often imitated but never duplicated. The GR-33 enhanced tracking speed takes full advantage of the GK-2A's renowned accuracy, marking the GR-33 as the world's fastest 48-voice guitar synth in the process. This lightning-quick response and improved accuracy ensures the GR-33 will capture every note and nuance of a guitarist's performance, from subtle strumming to pounding rhythms and intense solos.

Divided Pickup
GK-2A

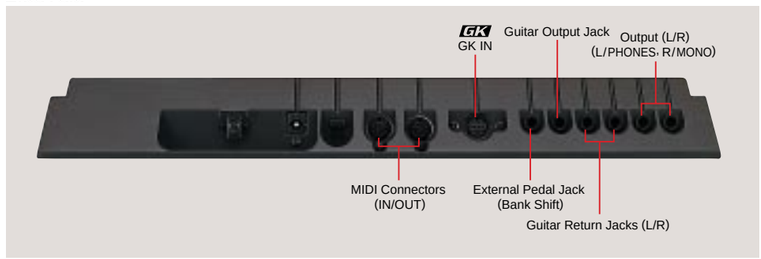
Blend Synth and "Straight" Sounds

Want to hear the future of guitar? Then just plug into a GR-33 and blend the sound of your standard guitar pickups with that of the GR-33's impressive synth engine. Layer a killer organ over your favorite guitar amp's sound, tap into the GR-33's onboard Arpeggiator or Harmonist to create incredible dreamy or textural tones. A whole new world of sound awaits.

Packed with Helpful Features

The GR-33's intuitive panel layout makes navigation, operation, and editing easy. It features a two-line LCD display, dedicated function buttons, and a Value dial for immediate access to the most commonly used parameters. There's also four on/off pedals and an assignable expression pedal for quick realtime Patch selection and tweaking. A new stereo return input makes it easy to route a guitar from an external effects processor to the GR-33, while an Output Select switch permits connection to a guitar amp or power amp. Of course, MIDI I/O is also provided for using the GR-33 in conjunction with sequencers or to control other sound modules and MIDI gear.

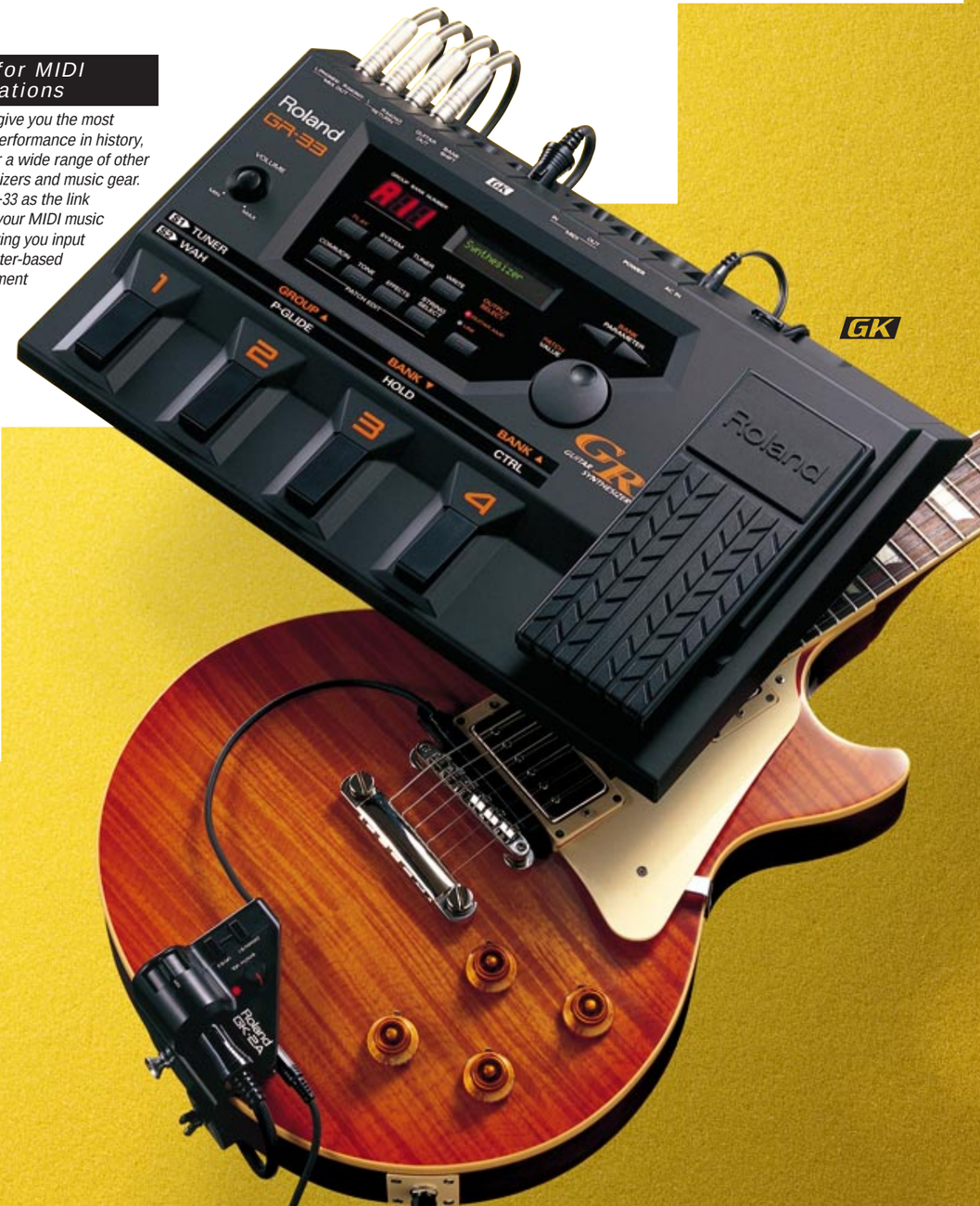
■ ***Rear Panel***



Perfect for MIDI Applications

Not only does the GR-33 give you the most impressive guitar synth performance in history, but it also lets you trigger a wide range of other MIDI-compatible synthesizers and music gear. You can even use the GR-33 as the link between your guitar and your MIDI music sequencing software, letting you input your playing into a computer-based MIDI production environment with ease.

GUITAR SYNTHESIZER
GR-33



■ ***Preset Tone List***

1 GR Piano	33 Shine On...	65 Ac.Harmonix	97 Trem Mandlin	129 Pedal Bass 1	161 Blow Sax	193 Big Brass	225 MG Saw 2	257 JP PulseKey1	289 JzVoice Bop	321 OB Strings	353 Cold Wind
2 Cool Piano	34 Sweep Organ	66 Acoustic6Vsw	98 Koto	130 Pedal Bass 2	162 Breathy Tnr	194 BrassSect x4	226 MG Saw 3	258 JP PulseKey2	290 VowVowVox	322 OBXP Strings	354 Wind & Waves
3 Dark Piano	35 Organ Bell	67 Steel Away	99 Kayakeum	131 Sys 700 Bs 1	163 TenorSax Hrd	195 BrassFalloff	227 SH-5 Saw	259 Air Keys	291 London Choir	323 JP-8Haunting	355 Pink Bomb
4 Old Upright	36 NewAge Belle	68 AcGtr & Str	100 Shamisen	132 Sys 700 Bs 2	164 TenorSax Vsw	196 Mellow Horn	228 SH-101 Saw	260 Digital Gtr	292 GregorianChr	324 Hollow Pad	356 Noise Fall
5 Piano&String	37 Fantasia GR	69 AcGtr & Chr	101 Shamisen Ens	133 ResoSynBass	165 T.Sax Sect	197 OBXP Brass	229 D-50 Saw 1	261 Analog Gtr	293 Slow Choir	325 JP Synth Vox	357 Air Noise
6 Piano&Choir	38 Digiwave	70 Acoustic-12	102 Harp	134 TB-303 RezBs	166 Baritone Sax	198 MG Brass	230 D-50 Saw 2	262 WireString	294 Hybrid Chr	326 Air Prologue	358 Icy
7 SA Rhodes	39 Frog wave	71 18str Gtr	103 Harp Trem	135 Saw Yer Bass	167 Bari Sax Ens	199 Saws Brass	231 OB Saw	263 VectorGuitar	295 Breathy Vox	327 Fine Wine	359 Vox Noise
8 StageRhd Sft	40 JUNO AnaBell	72 Pedal Steel	104 Ac.Upr.Bass	136 Attack Flute	168 Sax Sectx4	200 Brassy Saw	232 Synth Pulse1	264 Metro Pad	296 Syn Vox	328 Bowed PnoPad	360 VoxNz Key
9 StageRhd Hrd	41 Bell Pad	73 BPF Guitar	105 Upright Bass	137 GR Flute	169 Harmonica 1	201 Synth Brass1	233 JP-8 Pulse 1	265 "VH" Synth	297 Voice Oohs	329 DigiSaw Pad	361 Atmospheric
10 StageRhd Vsw	42 Bell Vox	74 Slow Gtr	106 Guitarron Bs	138 India Flute	170 Harmonica 2	202 Synth Brass2	234 JP-8 Pulse 2	266 MG Det.Saw	298 SweepVox Pad	330 Soft Pad	362 Feedbackwave
11 PopE.Pno Sft	43 SwellBellPad	75 Clean Tele1	107 FingeredBass	139 MellowFlutes	171 Accord Fr.	203 Solo SynBrs	235 JP-8 Pulse 3	267 Fat JP-6	299 Sweep SynVox	331 Warm Pad	363 Volcano EFX
12 PopE.Pno Hrd	44 Glockenspiel	76 Clean Tele2	108 Funky Bs Vsw	140 Sing Flute	172 Squeeze Box	204 OB Lead 1	236 Pulse Lead	268 Detuned Saw	300 JX-8P Vox 1	332 SoundtrackGR	364 Vocal Phrase
13 PopE.Pno Vsw	45 Vibraphone	77 Dual Guitars	109 Slap Bass	141 Scat Flute	173 Trumpet	205 OB Lead 2	237 JP Det.Pls	269 JP Hollo	301 JX-8P Vox 2	333 Vintage Pad	365 Oxygen-Jar
14 BritePop EP	46 Xylophone	78 Clean Strat1	110 Mute/Pick Bs	142 Breathy	174 Trumpet Ens.	206 Sqr Lead 1	238 Detuned Pls	270 Fairies	302 Machine Vox	334 JUNO OrgPad	366 Motion Synth
15 Detuned EP	47 Marimba	79 Clean Strat2	111 Muted Bass	143 Oboe	175 Attack Trump	207 P5 Pipe	239 MG Triangle	271 Blaster	303 St.Strings	335 SynHarmonica	367 Tempered2000
16 E.P.&Strings	48 Balaphone	80 Muted Gt.	112 Picked Bass	144 Clarinet	176 MutedTrumpet	208 JP-8 Square	240 2600 Sine	272 Daft wave	304 Mono Strings	336 OB Synthy	368 ComputerRoom
17 E.P.&SynVox	49 Kalimba	81 Scat Guitar	113 FretlessBass	145 Fltr&Clarinet	177 Lo-Fi RoomTp	209 Sqr Lead 2	241 Digi Lead 1	273 TB Resa Sqr	305 GR33 Strings	337 Fat Pad	369 Emergency
18 E.Org w/Pdl	50 Steel Drum	82 Dist Solo Gt	114 Fat Fretless	146 Shanai	178 Trombone	210 Synth Square	242 Digi Lead 2	274 AuhVox Rave	306 Orch Strings	338 Prologue	370 Toy Gun
19 Bee3 slw/fst	51 Asian Gong	83 Lead Gtr +FB	115 Beat Bass	147 Mizmar	179 Tbone Sect.	211 JP Det. Sqr	243 RezBrassLead	275 Orch. Hit	307 Fat Orc Str	339 Cosmos Pad	371 Rattle Efx
20 Bee3 Organ	52 Jublag	84 Bowed Guitar	116 SH-101 Bs 1	148 Ocarina	180 Tbones&Saxes	212 70's Lead	244 DigiwaveLead	276 Philly Hit	308 Somber Str	340 Saws Pad	372 Salsa Split
21 Mad Organ	53 Kajar	85 TrPan D.Gtr	117 SH-101 Bs 2	149 Tin Whistle	181 Flugel Atk	213 Cold Lead	245 WAVE Table	277 BrassVox Hit	309 BriteStrings	341 SawsSweep1	373 Tabla&Sitar
22 Rock Organ 1	54 Angklung	86 Heavy Duty	118 Bassic 101	150 Blow Pipe	182 Flugel Horn	214 Hollow Lead	246 Sync Sweep	278 FX TomHit	310 Slow Strings	342 Sweep Pad	374 Didgeri Flt
23 Rock Organ 2	55 Bendir	87 Dist Gtr Chd	119 Oct Bass 101	151 Sicu Pipe	183 Flugel Ens.	215 FM Lead	247 JUNO Clavi	279 Drill Hit	311 TremoloString	343 LFOSweepSaw	375 Didgeri Pipe
24 R-Organ Full	56 Timpani	88 Gtr Feedback	120 ResoBass 101	152 Zampona	184 Solo F.Horn	216 700 Saw Ld	248 JUNOClaviRez	280 Pcm Press	312 Marcato Str.	344 SawsSweep2	376 Salsa Phrase
25 R&R Org&Gtr	57 Nylon Gtr mp	89 Drone Split	121 SH101 Zap Bs	153 Shakuhachi	185 F.Horn Ens.	217 KG800 Ld	249 JUNOFunkClav	281 PC-2 Machine	313 Full Orch	345 JUNO Polaris	377 DidgeridooPh
26 Jazz Organ 1	58 Nylon Gtr mf	90 Tambura	122 TB-303 Bass	154 Soprano Sax	186 GR Horns	218 2Pole SawLd	250 Simple Synth	282 Tape Stop	314 Violin Solo	346 Filter Dance	378 TablaBayaPhs
27 Jazz Organ 2	59 NylonGtr Vsw	91 Sitar	123 TB-303 Bs x2	155 Sop Sax Ens.	187 Octave Brass	219 GR300 Saw1	251 JP Pluck 1	283 Perc Heaven	315 GR Cello	347 Flying GR	379 Drum Kit 1
28 60's Organ	60 Super Nylon	92 E.Sitar	124 TB Solid Bs	156 AltoSaxSoft	188 R&R Horn Ens	220 GR300 Saw2	252 JP Pluck 2	284 Analog Snare	316 GR Fiddle	348 Strobe Mode	380 Drum Kit 2
29 CathedralOrg	61 Nylon & Str	93 Bouzouki	125 FunkySynBass	157 AltoSaxHard	189 BrassSect GR	221 JP-4 Lead	253 Lo-Fi Keys	285 ScatVox Vsw	317 Erhu Vsw	349 LFO VOX	381 HandPerc.Kit
30 Pipe Organ 1	62 Nylon & Chr	94 Bouzouki Ens	126 SinewaveBass	158 Breathy Alto	190 St.BrassSect	222 Puls Reso Ld	254 Nasty Keys 1	286 JzVoice Doos	318 Pizz	350 Slicer	382 Vox Perc.Kit
31 Pipe Organ 2	63 Acoustic6 mp	95 Banjo	127 JP-4 Bass	159 Alto Sax Vsw	191 BrassSect x3	223 Alpha Lead	255 Nasty Keys 2	287 St.Vox Doos	319 JP-8 Strings	351 IndustrialLp	383 Gamelan Kit
32 P.Org&Choir	64 Acoustic6 mf	96 Mandolin	128 FM SynthBass	160 AltoLead Sax	192 Horn Sect	224 MG Saw 1	256 Pulse Key	288 Voice Bahs	320 JUNO Strings	352 Random White	384 Indus. Kit